Approved For Release 2000/08/08 : CIA-RDP96-00789R001400330001-0

REMOTE VIEWING SESSION DATA

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SG1J

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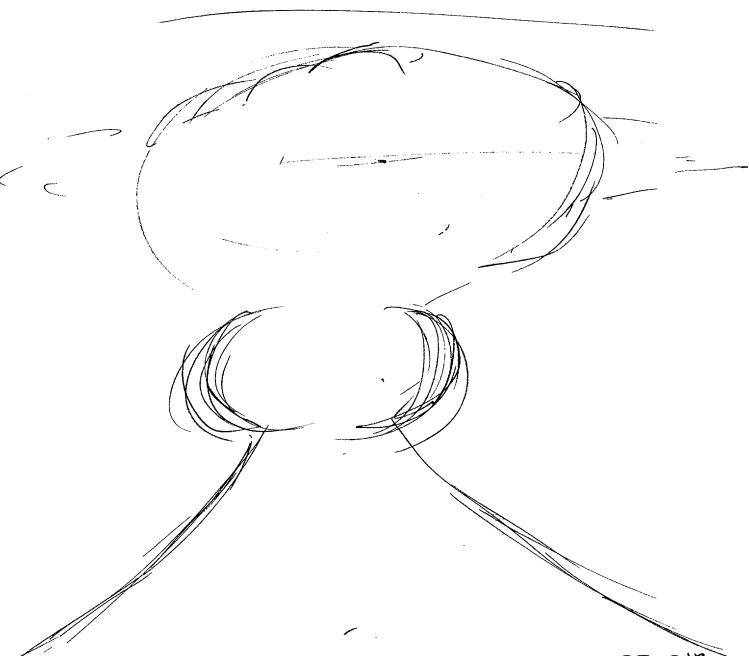
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CPYRGHT

A34 FRIDAY, NOVEMBER 15, 1985

THE WASHINGTON POST

THE ERUPTION OF THE NEVADA DEL RUIZ

Months of Volcanic Rumbling Warned of a Major Blow-Up

armonic Tremors, Mud Slides Preceded Colombian Blast

By Thomas O'Tools Wartington Post Staff Writer

Just as Washington's Mount St. lelens did five years ago, the clombian velcano Nevado del Ruiz has erupted Wednesday night gave out numerous telitale signs in the est 11 months that it was building

ast 11 months that it was building oward a major eruption.

As long ago as last December, eismographs began to pick up the unthings of spasmodic earth-makes below the volcano that are he harbingers of werse things to come. In March of this year, there rere several small steam and ash

Everybody knew his was a volcano that hadn": suffered an eruption in 400 years...."

- Dr. Robert Christiansen, USGS

colosions near the volcano's explosions thear the postage is 17,400-foot summit that signified more violent activity, and then on years, but everybody still knew it was a volcano." Volcanoes erupt when the molien

rock that normally lies far inside the mountain starts rising up, heating the rock above it and forcing it

There were signs in recent weeks that a giant pool of molten rock (magma) as hot as 2,200 degrees Fahrenheit had begun to stir inside the mountain and had begun to move upward, pushing aside the tons of rock that lay in its way. The telltale signs of moving magma were the "harmonic tremors" in the earth near the vokano that apparently were picked up by seismic lis-tening devices in the two months since the mud slide of Sept. 11.

Harmonic tremors are rhythmic motions in the earth that involve an motions in the earth that involve an almost continuous release of seismic energy. While earthquakes come in episodes and then stop, harmonic tremors go on for long periods at a steady frequency.

Christiansea said that harmonic tremors are always the result of moving magma and usually are the livet sense of less foreconfing major.

first signs of an impending major eruption. The U.S. Geological Sur-vey said yesterday that Nevado del

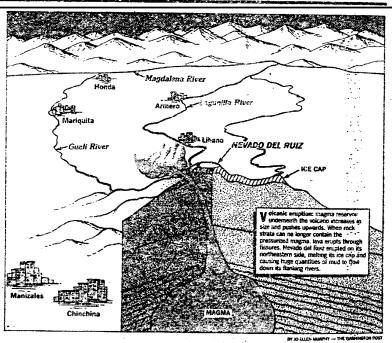
sleeping towns in the valley was as deep as 15 to 20 feet.

A lesser mud flow on the western

side of the mountain was still enough to create an artificial dam in the Quali River above the town of Mariquita, which Colombian offi-cials were attempting to evacuate before the mud-filled dam broke apart on its own. Floods from melting snow and ice were reported in four rivers whose headwaters begin on the mountain.

The physical similarity between the eruption of Nevado del Ruiz and Mount St. Helens is striking. Both volcanoes slowly built to eruptions and both eruptions did most of their early damage with mud slides. The huge snow and ice pack on both mountains melted in the heat of eruption, cascading tons of water and mud down the flanks of the mountains into the river valleys below. But only 57 people died in the Mount St. Helens eruption, which occurred in a sparsely populated

Nevado del Ruiz is the largest Newado del Ruiz is the largest and tallest of six volcanoes strung out in a line through central Colom-bia. The northernmost volcano in the Andes Mountains, Nevado del Volcano del Mountains, Nevado del



largest mud slides in South American history. The USGS' Dr. Darrel G. Herd described it as a "wall of mud, trees and ice that went racing down the valley to the Rio Maysen said. This means they retain their gases, allowing pressure to build, rather than venting them in a way that would relieve the pressure that builds up inside volcances, he

building in strength until it excee the weight of the rocks above that are holding it in. The result can be another eruption. The twin eruption of Nevado dei Ruiz Wednesday

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17,400-fact summit that signified more violent activity, and then on Sept. 11 of this year there was an eruption that melted enough snow and ice on the mountain peak to

cruption that melted enough snow and ice on the mountain peak to trigger a mud slide 20 miles long. "It's not surprising, except for the violence of the eruptions that shook the mountain Wednesday right," Dr. Robert Christiansen of libe U.S. Geological Survey (USGS) said by telephone from his office in livenio Park, Calif. "Everybody knew this was a volcans that hadn't and major eruption in 400.

eruption. The 0.5. Geotegical Survey said yesterday that Nevado del Ruiz suffered "two catastrophic eruptions" Wednesday night between 11 p.m. and midnight.

The back-ro-back empions on the northeast flank of the mountain melted enough ice and snow on the menutaintop to trigger what the USGS called "two catastrophic mud flows down the northeast flank," which were channeled directly into the Lagunillas River in the broad valley at the base of the mountain. Eyewitnesses said the mud in four

Pia. The northernmost volcanc in the Andes Mountains, Nevado del Ruiz has also been the most destructive of the six Colombian volcanoes, erupting in a "thunderous" explosion on March 12, 1595, and erupting again in 1828 and 1829. The volcano was "still smoking" in 1831 after its two 19th-century eruptions.

The Colombian mountain was also the scene of a major earthquake on Feb. 19, 1845, that shook loose enough snow and ice on top of the mountain to trigger one of the nud, rees and for that went racing down the valley to the Rio Magdalena, killing an estimated 1,000 people? then living in the valley. Why did Nevarlo del Ruiz go al-

Why did Nevado del Ruiz go almost 400 years without a major eruption? Geologists say they don't know, but many suspect it is in the makeup of the magma that lies below the volcanoes that formed the Andes Mountains.

The magmas in the Andes are very viscous and stickier, let's say, than the magmas that lie beneath the Hawaiian volcanoes," Christianway that would relieve the pressure that builds up inside volcanoes, he said. "Hawaiian volcanoes are always blowing off pressure, which might be one reason they don't erupt catastrophically."

Another reason lies with volcanoes themselves, among the most unpredictable phenomena of nature. Said Dr. Meyer Rubin of the USG'S: "Volcanoes can go 1,000 years without an eruption. There's no way to predict their behavior."

The upward movement of magma can continue off and on for years,

another ecuption. The twin ecuption of Nevado del Ruiz Wednesday night could thus signal the start of an ecuptive period that could last another 10 years.

There is also the chance that

There is also the chance that Nevado dei Puiz will have an impact on the world's weather. Depending on how much suifur dioxide gas it pumps into the upper atmosphere, the erupting volcane could send a cioud of gas and dust around the world blocking just enough sunlight from reaching the surface to cool the earth by a degree or two.

Volcano Kills Thousands In Colombia

VOLCANO, From A1

for mortical supplies, gotable water and transport equipment to help in a rescue effort hampered by the nestruction of bridges and roads. Cotombran radio and television advised people in the disaster zone not to drink from local water supplies, which were feared contaminated by

sulfur.

(in Washington, the U.S. Agency for International Development said 12 helicopters were dispatched to the scene from a base in Panama, at the request of Colonibia. A statement said AID relief expert Paul Bell and Darrell Herd of the U.S. Geological Survey in Reston, who has studied the voicano, were en prote to offer assistance.

has studed the volcane, were enfourte to offer assistance.]

The the most seriously affected hown was Armero, with a population of 25,000, about 18 miles east of the volcane. It was said by some residents to have been 90 percent

Several neighborhoods in the city



Mandated at lower right.



